(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

## (19) World Intellectual Property Organization

International Bureau



# 535 123

(43) International Publication Date 3 June 2004 (03.06.2004)

**PCT** 

# (10) International Publication Number WO 2004/047408 A1

(51) International Patent Classification<sup>7</sup>:

H04L 29/08

(21) International Application Number:

PCT/IB2003/004800

(22) International Filing Date: 28 October 2003 (28.10.2003)

(25) Filing Language:

English

(26) Publication Language:

**English** 

(30) Priority Data:

02025751.5

15 November 2002 (15.11.2002) EF

(71) Applicant (for all designated States except US): INTER-NATIONAL BUSINESS MACHINES CORPORA-TION [US/US]; New Orchard Road, Armonk, NJ 10504 (US).

(72) Inventors; and

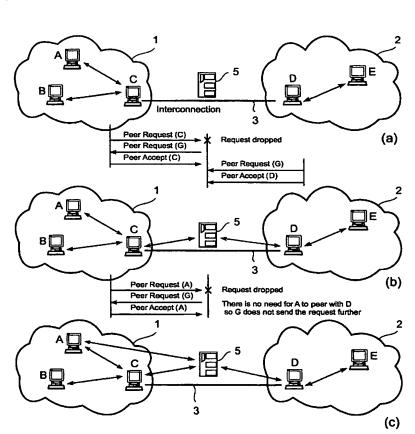
(75) Inventors/Applicants (for US only): ROONEY, Sean [IE/CH]; Uetlibergstrasse 42, CH-8045 Zurich (CH).

SCOTTON, Paolo [IT/CH]; Sennhuettenstrasse 37, CH-8810 Horgen (CH). BAUER, Daniel [CH/CH]; Alte Zuercherstrasse 43, CH-8903 Birmensdorf (CH). WALD-VOGEL, Marcel [CH/CH]; Anton Graff-Strasse 15, CH-8400 Winterthur (CH).

- (74) Agent: TOLETI, Martin; International Business Machines Corporation, Saeumerstrasse 4/Postfach, CH-8803 Rueschlikon (CH).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: NETWORK TRAFFIC CONTROL IN PEER-TO-PEER ENVIRONMENTS



(57) Abstract: A method and an electronic unit are disclosed for controlling traffic on a network, especially for controlling peer-to-peer related traffic. A filter unit is intercepting messages related peer-to-peer application from network line, irrespective of the messages' destination, A control logic then manages a request represented by an intercepted message subject to its content and subject to peering specific information.

Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

#### Published:

with international search report

## INTERNATION EARCH REPORT

Internation Illication No PCT/ 3/04800

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04L29/08

According to International Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols) IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, IBM-TDB

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to dalm No.
Х	US 2002/107982 A1 (BJORNER NIKOLAJ S ET AL) 8 August 2002 (2002-08-08)	1-7, 11-22, 32,33
Υ		8-10,
	paragraph '0016! paragraphs '0029!,'0030! paragraphs '0035!-'0037! paragraph '0046! paragraphs '0070!-'0087! paragraph '0123!	23-31
Υ	US 6 442 571 B1 (HAFF MAURICE W ET AL) 27 August 2002 (2002-08-27) column 6, line 1-7 column 7, line 52 -column 8, line 8 column 9, line 45-62 column 11, line 19-57	8-10, 23-31

Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
Special categories of cited documents:  A' document defining the general state of the art which is not considered to be of particular relevance  E' earlier document but published on or after the international filing date  L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  O' document referring to an oral disclosure, use, exhibition or other means  P' document published prior to the international filing date but later than the priority date claimed	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but clied to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
Date of the actual completion of the international search  4 February 2004	Date of mailing of the international search report  11/02/2004
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer Hes, R

## INTERNATION EARCH REPORT

PCT/ pilcation No

C (Continue	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	37 04800
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/147810 A1 (ABDELAZIZ MOHAMED M ET AL) 10 October 2002 (2002-10-10) abstract paragraphs '0027!-'0030! paragraphs '0282!-'0293! paragraph '0405! paragraphs '0412!,'0413!	1-33
	·	
•		
	·	

### INTERNATIONAL SEARCH REPORT

Internati ilication No on patent family members PCT 3/04800 Patent document Publication Patent family Publication cited in search report member(s) date date US 2002107982 08-08-2002 WO 25-07-2002 A1 02058360 A2 ΑU 3526302 A 03-06-2002 AU 3526402 A 03-06-2002 EP 1338133 A2 27-08-2003 WO 0242900 A2 30-05-2002 WO 0242901 A2 30-05-2002 US 2002062336 A1 23-05-2002 US 2002062375 A1 23-05-2002 US 6442571 **B1** 27-08-2002 US 6219669 B1 17-04-2001 บร 2002184224 A1 05-12-2002 ΑU 757557 B2 27-02-2003 ΑU 1460599 A 07-06-1999 BR 9815290 A 04-12-2001 CA 2309660 A1 27-05-1999 EΑ 2886 B1 31-10-2002 EP 1038368 A2 27-09-2000 JP 2002506246 T 26-02-2002 WO 9926121 A2 27-05-1999 US 2002147810 **A1** 10-10-2002 US 2002156893 A1 24-10-2002 27-02-2003 US 2003041141 A1 EP 1229442 A2 07-08-2002 EP 1229443 A2 07-08-2002 MO 02057917 A2 25-07-2002 US 2002143944 A1 03-10-2002 US 2002143855 A1 03-10-2002

US

US

US

US

US

US

US

US

EP

US

US

US

US

2002184310 A1

2002184357 A1

2002184311 A1

2003002521 A1

2002152299 A1

2002184358 A1

2002188657 A1

2002147771 A1

2003028585 A1

2003070070 A1

2003055894 A1

2003055898 A1

1282289 A2

05-12-2002

05-12-2002

05-12-2002

02-01-2003

17-10-2002

05-12-2002

12-12-2002

10-10-2002

05-02-2003

06-02-2003

10-04-2003

20-03-2003

20-03-2003